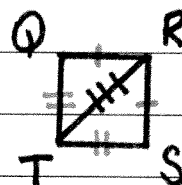


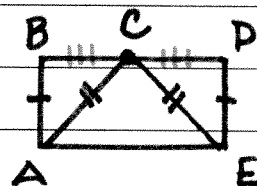
Pages 267-268 5, 6, 8, 13, 16-19 all  
 Pages 277-278 7, 10, 14

5. Given:  $\overline{QR} \cong \overline{SR}$   $\overline{ST} \cong \overline{QT}$   
 Prove:  $\triangle QRT \cong \triangle SRT$



Statements	Reasons
1. $\overline{QR} \cong \overline{SR}$ ; $\overline{ST} \cong \overline{QT}$	1. Given
2. $\overline{RT} \cong \overline{RT}$	2. Reflexive
3. $\triangle QRT \cong \triangle SRT$	3. SSS

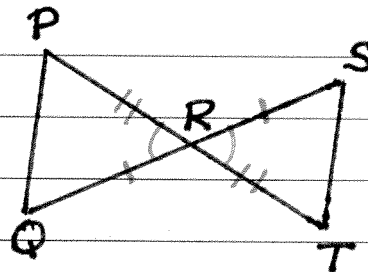
6. Given:  $\overline{AB} \cong \overline{ED}$   
 $\overline{CA} \cong \overline{CE}$   
 $\overline{AC}$  bisects  $\overline{BD}$   
 Prove:  $\triangle ABC \cong \triangle EDC$



Statements	Reasons
1. $\overline{AB} \cong \overline{ED}$ $\overline{CA} \cong \overline{CE}$ $\overline{AC}$ bisects $\overline{BD}$	1. Given
2. $\overline{BC} \cong \overline{CD}$	2. Def. of segment bisector
3. $\triangle ABC \cong \triangle EDC$	3. SSS

8.  $MM = \sqrt{18}$   $NO = \sqrt{17}$   $MO = \sqrt{17}$   $\triangle MNO \cong \triangle QRS$   
 $QR = \sqrt{18}$   $RS = \sqrt{17}$   $QS = \sqrt{17}$  by SSS

13. Given:  $R$  is the midpoint of  $\overline{QS}$  and  $\overline{PT}$ .  
 Prove:  $\triangle PRQ \cong \triangle TRS$

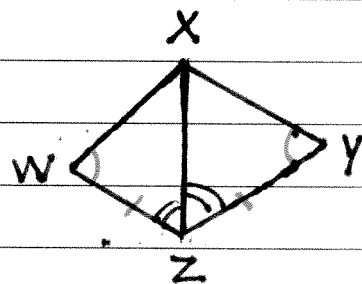


Statements	Reasons
1. $R$ is the midpt of $\overline{QS}$ & $\overline{PT}$	1. Given
2. $\overline{QR} \cong \overline{SR}$	2. Def of midpt
3. $\angle PRQ \cong \angle TRS$	3. Def of vertical $\angle$ s
4. $\overline{PR} \cong \overline{TR}$	4. Def of midpt
5. $\triangle PRQ \cong \triangle TRS$	5. SAS

16. SSS      17. not possible      18. not possible      19. SAS

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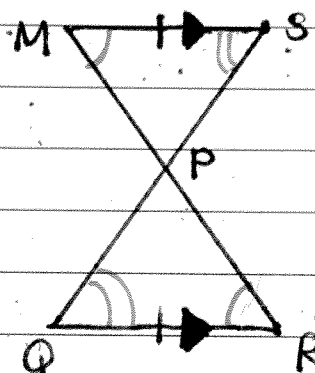
7. Given:  $\angle W \cong \angle Y$ ,  $\overline{WZ} \cong \overline{YZ}$   
 $\overline{XZ}$  bisects  $\angle WZY$   
 Prove:  $\triangle XWZ \cong \triangle XYZ$



Statements	Reasons
1. $\angle W \cong \angle Y$ , $\overline{WZ} \cong \overline{YZ}$ $\overline{XZ}$ bisects $\angle WZY$	1. Given
2. $\angle WZX \cong \angle XZY$	2. Def of $\angle$ bisector
3. $\triangle XWZ \cong \triangle XYZ$	3. ASA

ASA or AAS

10. Given:  $\overline{MS} \cong \overline{RQ}$ ,  $\overline{MS} \parallel \overline{RQ}$   
Prove:  $\triangle MSP \cong \triangle RQP$



Statements	Reasons
1. $\overline{MS} \cong \overline{RQ}$ , $\overline{MS} \parallel \overline{RQ}$	1. Given
2. $\angle M \cong \angle R$ , $\angle S \cong \angle Q$	2. alt. int. $\angle$ s are $\cong$
3. $\triangle MSP \cong \triangle RQP$	3. ASA

14  $24x + 5 = 77$   
 $x = 3$

$\textcircled{*}$   $13y + 14y - 8 + 53 = 180$   
 $27y + 45 = 180$   
 $y = 5$